

PTO/BB/21 (08-03)

Approval for use through 07/31/2006, OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/602,364
	Filing Date	June 23, 2003
	First Named Inventor	Kwok
	Art Unit	2816
	Examiner Name	Le, Dinh Thanh
Total Number of Pages in This Submission	Attorney Docket Number	72790/7262

**ENCLOSURES (check all that apply)**

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	1) Form PTO 1449
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	2) Eight References
<input type="checkbox"/> Certified Copy of Priority Document(s)		3) Return Receipt Postcard
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	<b>REMARKS:</b>	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

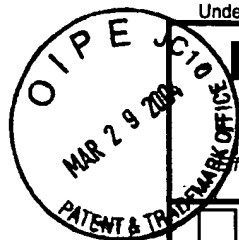
Individual name	Scott J. Menghini, Reg. No. 42,880
Signature	
Date	March 25, 2004

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 the date shown below.			
			March 25, 2004
Typed or printed name	Scott J. Menghini		
Signature		Date	March 25, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-03)  
Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.  
First Class Mail

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$ 180.00

Attorney Docket No.

72790/7262

## Complete if Known

Application Number

10/602,364

Filing Date

June 23, 2003

First Named Inventor

Kwok

Examiner Name

Le, Dinh Thanh

Art Unit

2816

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit  
Account  
Number  
Deposit  
Account  
Name

06-1135

Fitch, Even, Tabin & Flannery

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee  
to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$)

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

	Extra Claims	Fee from below	Fee Paid
Total Claims	-20**=	X	=
Independent Claims	-3**=	X	=
Multiple Dependent			=

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple dependent claim, if not paid	
1204	86	2204	43	**Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$)

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 180.00

## SUBMITTED BY

Name (Print/Type)	Scott J. Menghini	Registration No. (Attorney/Agent)	42,880	Telephone	858-552-1311
Signature		Date	March 25, 2004		

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 37 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450 Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Docket No. 72790/7262

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Kwok  
Application No.: 10/602,364  
Filed: June 23, 2003  
Title: POLY-PHASE NETWORK WITH  
RESONANT CIRCUIT BAND PASS  
SHAPING TO IMPROVE PHASE  
DISTORTION CHARACTERISTICS  
Art Unit: 2816  
Examiner: Le, Dinh Thanh  
Customer No.: 22242  
Confirmation No.: 1142

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P.O. Box 1450, Alexandria, VA 22313-1450, on the  
date shown below:

03/25/2004

Date

Scott J. Menghini

Registration No. 42,880

Attorney for Applicant

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This Information Disclosure Statement is submitted:

Under 37 CFR §1.97(b) (within three months of the filing date of a national application or date of entry of an international application, or before the mailing date of a first Office Action on the merits, whichever occurs last). However, should a first Office Action on the merits be mailed unbeknownst to the undersigned prior to the date of mailing of this paper, the fee requested under §1.17(p) may be charged to Deposit Account No. 06-1135.

03/30/2004 AADDF01 00000079 061135 10602364

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Application No. 10/602,364

Page 2

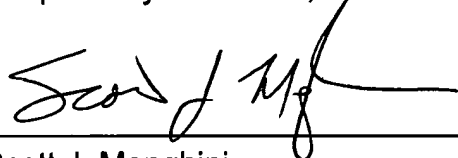
- ☒ Under 37 CFR §1.97(c) together with either:  
\_\_\_\_ a statement under 37 CFR §1.97(e), or  
☒ a fee under 37 CFR §1.17(p)  
(after the 37 CFR §1.97(b) time period, but before the mailing date  
of a final Action, a Notice of Allowance, or an action that otherwise  
closes prosecution).
- \_\_\_\_ Under 37 CFR §1.97(d) together with:  
\_\_\_\_ a statement under 37 CFR §1.97(e), and  
\_\_\_\_ a fee under 37 CFR §1.17(p)  
(after the 37 CFR §1.97(c) time period, but on or before payment of  
the issue fee).

In accordance with the duty of disclosure imposed by 37 CFR § 1.56 to inform the Patent Office of all patents, publications, applications and other information known by Applicants or Applicants' representative that may be material to the examination of the subject application, Applicants' representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 CFR §§ 1.97-1.98 and includes Form PTO-1449 with Eight (8) references listed as items AA-AH.

It is requested that the information provided herein be made of record in this application.

Dated: March 25, 2004

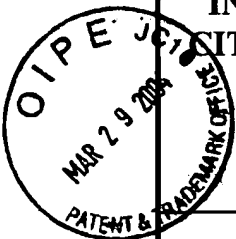
Respectfully submitted,

  
\_\_\_\_\_  
Scott J. Menghini  
Reg. No. 42,880  
Attorney for Applicant

**Address all Correspondence to:**

Scott J. Menghini  
FITCH, EVEN, TABIN & FLANNERY  
120 So. LaSalle Street  
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Chicago, IL 60603  
(858) 552-1311

Form PTO-1449 (Modified)  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>	Application No.	<b>10/602,364</b>
	Filing Date	<b>June 23, 2003</b>
	First Named Inventor	<b>Kwok</b>
	Group Art Unit	<b>2816</b>
	Examiner Name	<b>Le, Dinh Thanh</b>
Sheet 1 of 1		Attorney Docket No. <b>72790/7262</b>



U.S. PATENT DOCUMENTS									
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	U.S. PATENT DOCUMENT		NAME OF INVENTOR OR APPLICANT	DATE OF ISSUANCE OR PUBLICATION (MM-DD-YYYY)	CLASS	SUB CLASS	FILING DATE
			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	AA		3,559,042		Gingell, M. J.	01-26-1971	323	122	05-19-1969
	AB		3,618,133		Gingell, M. J.	11-02-1971	333	24	05-20-1969
	AC		4,123,712		Mikhael	10-31-1978	325	137	04-22-1977

OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS			
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	AD		JOHNSON, S., <i>Quadrature Phase Generator</i> , <a href="http://www.eece.ksu.edu/vlsi/bluetooth/s....eam2/Phase_Generator/Phase_Generator.html">http://www.eece.ksu.edu/vlsi/bluetooth/s....eam2/Phase_Generator/Phase_Generator.html</a> , printed July 12, 2002, Five pages, Kansas State University
	AE		JOHNSON, S., <a href="http://www.eece.ksu.edu/vlsi/bluetooth/s...enerator/Pictures/sj_up_mixer_sch_lo.gif">http://www.eece.ksu.edu/vlsi/bluetooth/s...enerator/Pictures/sj_up_mixer_sch_lo.gif</a> , printed July 12, 2002, one page, Kansas State University
	AF		<i>Polyphase Filters Are Used In Single Sideband Receivers, Generators, and Many Other Ways</i> , <a href="http://users.vnet.net/gingell/polyphas/polyphas.html">http://users.vnet.net/gingell/polyphas/polyphas.html</a> , printed July 12, 2002, one page
	AG		SCHMIDT von BEHREN, K. et al., <i>5-6 GHz Resistive Image Reject Mixer In a 2.5 V CMOS Technology</i> , Six pages, IP2000 Europe - New Technologies for RF Circuits, Edinburgh, Scotland - 23-24 October 2000
	AH		STADIUS, KARI et al, <i>An Image-Reject Downconverter With Sideband Selection For Double-Conversion Receiver</i> , <a href="http://www.imec.be/esscirt/esscirt2001/c01_Presentations/38.pdf">www.imec.be/esscirt/esscirt2001/c01_Presentations/38.pdf</a> , 2001, Four pages, Esscirt2001, European Solid-State Circuit Conference

Examiner Signature		Date Considered	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.			